SLRN (from page 26)

Table 1. NASA Satellite Laser Ranging Network		
Location	**SLR System**	**Operating Agency**
Monument Peak, California	MOBLAS-4	Mission Contractor (HTSI)
Greenbelt, Maryland	MOBLAS-7	Mission Contractor (HTSI)
Mount Haleakala, Maui, Hawaii	HOLLAS	University of Hawaii
Fort Davis, Texas	MLRS	University of Texas at Austin
Arequipa, Peru	TLRS-3	Universidad Nacional de San Agustin
Yarragadee, Australia	MOBLAS-5	Geoscience Australia (formerly AUSLIG)
Hartebeesthoek, South Africa	MOBLAS-6	National Research Foundation/HRAO
Tahiti, French Polynesia	MOBLAS-8	University of French Polynesia/CNES

Although there are some slight differences in hardware, the system configurations of the NASA Network stations are very similar (see Table 2).

The NASA SLR Network has been fully operational in the field for over twenty years. During this time, the Network has seen many modifications and upgrades to maintain system operations and more importantly, to increase data quantity and quality. Through a declining budget, NASA continues to ensure system operations and performance are maintained at the highest level. During the last few years, the MOBLAS, TLRS, MLRS (University of Texas SLR system), and HOLLAS (University of Hawaii SLR system) have received both hardware and software changes to maintain and enhance system operations. Upgrades were made to the timing subsystem, the receiver subsystem, the laser subsystem, the communications subsystem, the mount subsystem, and the processing software for the NASA SLR Network.

In summary, the NASA Network still consists of nine NASA-operated, partner-operated and University-operated stations covering North America, the west

continued on page 28

Table 2. System Configuration Information				
ITEM	**MOBLAS**	**TLRS**	**HOLLAS**	**MLRS**
Mount Configuration	Az/El	Az/ El	Az/ El	X-Y
Laser Type	Nd:YAG	Nd:YAG	Nd:YAG	YG402DP
Primary Wavelength	532 nm	532 nm	532 nm	532 nm
Pulse Energy	100 mJ	100 mJ	140 mJ	125 mJ
Repetition Rate	4 or 5 Hz	4 or 5 Hz	5 Hz	10 Hz
Receiver Aperture Dia.	30 in.	11 in.	16 in.	30 in.
Detector Type	MCP/PMT	MCP/PMT	MCP/PMT	MCP/PMT, SPAD
Timing Standard	GPS/Steered Rb.	Cesium	Cesium	Cesium